

	Type	L #	Hits	Search Text	DBs	Time Stamp	C o m m e n t s	E r r o r m e s s a g e s	E r r o r m e s s a g e s
9	BRS	L75	3	( cmp or "chemical mechanical polishing") and ("pentadione dioxime" or pentadione)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 15:28			0
10	BRS	L82	3	( cmp or "chemical mechanical polishing" or planariz\$3 or planarization) and ("pentadione dioxime" or pentadione)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:22			0
11	BRS	L89	15	( cmp or "chemical mechanical polishing" or planariz\$3 or planarization or polish\$3) and ("pentadione dioxime" or pentadione)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:03			0
12	BRS	L119	0	( cmp or "chemical mechanical polishing") and "milled aluminum"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:20			0
13	BRS	L126	2	( cmp or "chemical mechanical polishing" or planariz\$3 or planarization) and ("milled aluminum")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:23			0
14	BRS	L133	1	( abrasive or slurry or "metal oxide") with ("milled aluminum")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:27			0
15	BRS	L140	3212	( abrasive or slurry or "metal oxide") with milled	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:31			0
16	BRS	L147	26	( abrasive or slurry or "metal oxide") with ("milled alumina")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:28			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Com men ts	Er ro r D ef in iti o n	Er ro rs
17	BRS	L154	5439	( abrasive or slurry or "metal oxide") same milled	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:31			0
18	BRS	L161	23	154 and 438/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/02 17:32			0

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

L1 E 2,4-PENTADIONE DIOXIME  
0 S E3  
L2 E 2,4-PENTADIONE  
5 S E3  
L3 E 2,4-PENTADIONE DIOXIME/CN  
0 S E3  
L4 E 2,4-PENTADIONE/CN  
1 S E3  
L5 E 2,4-PENTADIONE DIOXIME/CN  
0 S E3  
L6 E 2,4 PENTADIONE DIOXIME/CN  
0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8 11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10 0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

L12 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003

L14 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003

L15 1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003

L16 680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003

L17 4 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003

L18 0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003

L20 2 S L19 AND L12  
L21 1 S L17 AND L20

FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003

L22 92 S L12 AND L16  
L23 2 S L12 AND L19  
L24 1 S L22 AND L23  
L25 91 S L22 NOT L24

L26 0 S L25 AND (CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLAN  
SET HIGH OFF  
L27 15 S L25 AND (SEMICONDUCT? OR WAFER? OR CHIP#)  
SET HIGH ON  
L28 15 S L25 AND L27  
L29 76 S L25 NOT L28

=>

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

          E 2,4-PENTADIONE DIOXIME  
L1          0 S E3  
          E 2,4-PENTADIONE  
L2          5 S E3  
          E 2,4-PENTADIONE DIOXIME/CN  
L3          0 S E3  
          E 2,4-PENTADIONE/CN  
L4          1 S E3  
          E 2,4-PENTADIONE DIOXIME/CN  
L5          0 S E3  
          E 2,4 PENTADIONE DIOXIME/CN  
L6          0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

          S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7          1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8          11819 S L7  
L9          2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10         0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11         22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

L12         179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13         28 S L11 AND L12  
          S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003

L14         1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003

L15         1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003

L16         680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003

L17         4 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003

L18         0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19         486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003

L20         2 S L19 AND L12  
L21         1 S L17 AND L20

FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003

L22         92 S L12 AND L16  
L23         2 S L12 AND L19  
L24         1 S L22 AND L23  
L25         91 S L22 NOT L24

L26 0 S L25 AND (CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLAN  
SET HIGH OFF  
L27 15 S L25 AND (SEMICONDUCT? OR WAFER? OR CHIP#)  
SET HIGH ON  
L28 15 S L25 AND L27  
L29 76 S L25 NOT L28

=>

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NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	40	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	41	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	42	Feb 13	CANCERLIT is no longer being updated
NEWS	43	Feb 24	METADEX enhancements

NEWS 44 Feb 24 PCTGEN now available on STN  
 NEWS 45 Feb 24 TEMA now available on STN  
 NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation  
 NEWS 47 Feb 26 PCTFULL now contains images  
 NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003  
 NEWS 50 Mar 20 EVENTLINE will be removed from STN  
 NEWS 51 Mar 24 PATDPAFULL now available on STN  
 NEWS 52 Mar 24 Additional information for trade-named substances without  
 structures available in REGISTRY  
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS  
  
 NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003

=> FIL REGISTRY

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FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 1 APR 2003 HIGHEST RN 501325-53-7

DICTIONARY FILE UPDATES: 1 APR 2003 HIGHEST RN 501325-53-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 27, Searching Properties



in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e 2,4-pentadione dioxime

E1	6	2,4-D/BI
E2	1	2,4-G/BI
E3	0 -->	2,4-PENTADIONE DIOXIME/BI
E4	1	2,4.10/BI
E5	3	2,4.6/BI
E6	3	2,4.ALPHA./BI
E7	2	2,4.ALPHA.,5,6,7.ALPHA.,8,8/BI
E8	1	2,4.ALPHA.,6,8/BI
E9	1	2,4.ALPHA.,7.ALPHA./BI
E10	2	2,4.ALPHA..BETA./BI
E11	10	2,4.BETA./BI
E12	1	2,4.BETA.,4A.BETA.,5,6,7,7A.BETA.,7B/BI

=> s e3

	972302	"2,4"/BI
	13	"PENTADIONE"/BI
	15451	"DIOXIME"/BI
L1	0	"2,4-PENTADIONE DIOXIME"/BI (("2,4"(W)"PENTADIONE"(W)"DIOXIME")/BI)

X => e 2,4-pentadione

E1	6	2,4-D/BI
E2	1	2,4-G/BI
E3	0 -->	2,4-PENTADIONE/BI
E4	1	2,4.10/BI
E5	3	2,4.6/BI
E6	3	2,4.ALPHA./BI
E7	2	2,4.ALPHA.,5,6,7.ALPHA.,8,8/BI
E8	1	2,4.ALPHA.,6,8/BI
E9	1	2,4.ALPHA.,7.ALPHA./BI
E10	2	2,4.ALPHA..BETA./BI
E11	10	2,4.BETA./BI
E12	1	2,4.BETA.,4A.BETA.,5,6,7,7A.BETA.,7B/BI

=> s e3

	972302	"2,4"/BI
	13	"PENTADIONE"/BI
L2	5	"2,4-PENTADIONE"/BI (("2,4"(W)"PENTADIONE")/BI)

=> e 2,4-pentadione dioxime/cn

E1	1	2,4-PENTADIENYLPOTASSIUM/CN
E2	1	2,4-PENTADIONE/CN
E3	0 -->	2,4-PENTADIONE DIOXIME/CN
E4	1	2,4-PENTADIONE-BIS-(3-CARBOETHOXY PENTADIONE-(2,4) ALUMINUM/ CN
E5	1	2,4-PENTADITAN/CN
E6	1	2,4-PENTADIYN-1-(P-N,N-DIMETHYLAMINOAZOBENZENESULFONATE)-5-( P-METHYLTHIO-O-METHYLPYRIMIDINE)/CN
E7	1	2,4-PENTADIYN-1-AMINE, 5,5'-(1,4-PHENYLENE) BIS(N,N-DIETHYL-, HYDROCHLORIDE/CN
E8	1	2,4-PENTADIYN-1-AMINE, 5-((1,1-DIMETHYLETHYL) DIMETHYLSILYL)- N,N-DIMETHYL-/CN
E9	1	2,4-PENTADIYN-1-AMINE, 5-(2,3-DIMETHYLOXIRANYL)-N,N-DIETHYL- /CN
E10	1	2,4-PENTADIYN-1-AMINE, 5-(4-CHLOROPHENYL)-N,N-DIMETHYL-/CN
E11	1	2,4-PENTADIYN-1-AMINE, 5-(4-METHOXYPHENYL)-N,N-DIMETHYL-/CN
E12	1	2,4-PENTADIYN-1-AMINE, N,N-BIS(1-METHYLETHYL)-/CN

=> s e3

L3 0 "2,4-PENTADIONE DIOXIME"/CN

=> e 2,4-pentadione/cn

E1 1 2,4-PENTADIENYLOXY, 1,5-DIOXO-/CN  
E2 1 2,4-PENTADIENYLPOTASSIUM/CN  
E3 1 --> 2,4-PENTADIONE/CN  
E4 1 2,4-PENTADIONE-BIS-(3-CARBOETHOXY PENTADIONE-(2,4) ALUMINUM/  
CN  
E5 1 2,4-PENTADITAN/CN  
E6 1 2,4-PENTADIYN-1-(P-N,N-DIMETHYLAMINOAZOBENZENESULFONATE)-5-(  
P-METHYLTHIO-O-METHYLPYRIMIDINE)/CN  
E7 1 2,4-PENTADIYN-1-AMINE, 5,5'-(1,4-PHENYLENE) BIS (N,N-DIETHYL-,  
HYDROCHLORIDE/CN  
E8 1 2,4-PENTADIYN-1-AMINE, 5-((1,1-DIMETHYLETHYL) DIMETHYLSILYL)-  
N,N-DIMETHYL-/CN  
E9 1 2,4-PENTADIYN-1-AMINE, 5-(2,3-DIMETHYLOXIRANYL)-N,N-DIETHYL-  
/CN  
E10 1 2,4-PENTADIYN-1-AMINE, 5-(4-CHLOROPHENYL)-N,N-DIMETHYL-/CN  
E11 1 2,4-PENTADIYN-1-AMINE, 5-(4-METHOXYPHENYL)-N,N-DIMETHYL-/CN  
E12 1 2,4-PENTADIYN-1-AMINE, N,N-BIS(1-METHYLETHYL)-/CN

=> s e3

L4 1 "2,4-PENTADIONE"/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 123-54-6 REGISTRY  
CN 2,4-Pentanedione (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,4-Dioxopentane  
CN **2,4-Pentadione**  
CN 2-Propanone, acetyl-  
CN ACAC

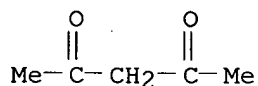
CN Acetoacetone  
CN Acetylacetone  
CN Diacetylmethane  
CN Pentan-2,4-dione  
FS 3D CONCORD  
DR 81235-32-7  
MF C5 H8 O2  
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM\*,  
DIPPR\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*,  
HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS,  
NIOSH TIC, PDL COM\*, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER,  
TULSA, USPAT2, USPATFULL, VTB

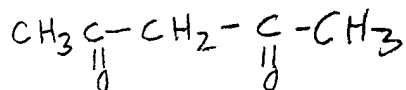
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



structure



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11799 REFERENCES IN FILE CA (1962 TO DATE)  
 1028 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 11822 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

X => e 2,4-pentadione dioxime/cn

E1 1 2,4-PENTADIENYLPOTASSIUM/CN  
 E2 1 2,4-PENTADIONE/CN  
 E3 0 --> 2,4-PENTADIONE DIOXIME/CN  
 E4 1 2,4-PENTADIONE-BIS-(3-CARBOETHOXY PENTADIONE-(2,4) ALUMINUM/  
 CN  
 E5 1 2,4-PENTADITAN/CN  
 E6 1 2,4-PENTADIYN-1-(P-N,N-DIMETHYLAMINOAZOBENZENESULFONATE)-5-(  
 P-METHYLTHIO-O-METHYLPYRIMIDINE)/CN  
 E7 1 2,4-PENTADIYN-1-AMINE, 5,5'-(1,4-PHENYLENE) BIS (N,N-DIETHYL-,  
 HYDROCHLORIDE/CN  
 E8 1 2,4-PENTADIYN-1-AMINE, 5-((1,1-DIMETHYLETHYL) DIMETHYLSILYL)-  
 N,N-DIMETHYL-/CN  
 E9 1 2,4-PENTADIYN-1-AMINE, 5-(2,3-DIMETHYLOXIRANYL)-N,N-DIETHYL-  
 /CN  
 E10 1 2,4-PENTADIYN-1-AMINE, 5-(4-CHLOROPHENYL)-N,N-DIMETHYL-/CN  
 E11 1 2,4-PENTADIYN-1-AMINE, 5-(4-METHOXYPHENYL)-N,N-DIMETHYL-/CN  
 E12 1 2,4-PENTADIYN-1-AMINE, N,N-BIS(1-METHYLETHYL)-/CN

=> s e3

L5 0 "2,4-PENTADIONE DIOXIME"/CN

=> d 15

L5 HAS NO ANSWERS

L5 0 SEA FILE=REGISTRY "2,4-PENTADIONE DIOXIME"/CN

X => e 2,4 PENTADIONE DIOXIME/CN

E1 1 2,4-DIMETHYLTETRAHYDROTHIOPHENE/CN  
 E2 1 2,4 LUTIDINE, COMPD. WITH 3,5-DINITRO-2-PYRIDINOL/CN  
 E3 0 --> 2,4 PENTADIONE DIOXIME/CN  
 E4 1 2,4'''-BIACETOPHENONE, 2'''-PHENYL-/CN  
 E5 1 2,4'''-BIACETOPHENONE, 3'''',4'-DIMETHOXY-/CN  
 E6 1 2,4'''-BIACETOPHENONE, 3'''-HYDROXY-/CN  
 E7 1 2,4'''-BIACETOPHENONE, 3'''-HYDROXY-4'-METHOXY-/CN  
 E8 1 2,4'''-BIACETOPHENONE, 3'''-METHOXY-/CN  
 E9 1 2,4'''-BIACETOPHENONE, 4'-METHOXY-2'''-(P-PHENYLACETYLPHENYL)-  
 /CN  
 E10 1 2,4'''-BIACETOPHENONE, 4'-METHOXY-2'''-PHENYL-/CN  
 E11 1 2,4'''-BIACETOPHENONE, 4'-METHYL-2'''-(P-PHENYLACETYLPHENYL)-  
 /CN  
 E12 1 2,4'''-BIACETOPHENONE, 4'-METHYL-2'''-PHENYL-/CN

=> s e3

L6 0 "2,4 PENTADIONE DIOXIME"/CN

=> d 16

L6 HAS NO ANSWERS

L6 0 SEA FILE=REGISTRY "2,4 PENTADIONE DIOXIME"/CN

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

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FILE LAST UPDATED: 1 Apr 2003 (20030401/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

→ => (cmp or "chemical mechanical polishing") and 123-54-6

**REGISTRY INITIATED**

Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L8 11819 L7

7829 CMP  
797053 "CHEMICAL"  
219970 "MECHANICAL"  
39601 "POLISHING"  
1317 "CHEMICAL MECHANICAL POLISHING"  
("CHEMICAL"(W)"MECHANICAL"(W)"POLISHING")

L9 2 (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

=> d 19

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
AN 2003:40516 CAPLUS  
DN 138:116223  
TI **Chemical mechanical polishing agent**  
containing cerium oxide grain and method of polishing semiconductor chip  
substrate using the same  
IN Sakurada, Takeshi  
PA Hitachi Chemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
X PI	JP 2003017445	A2	20030117	JP 2001-197275	20010628
PRAI	JP 2001-197275		20010628		
OS	MARPAT 138:116223				

date  
is not  
good

=> d all

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 AN 2003:40516 CAPLUS  
 DN 138:116223

TI **Chemical mechanical polishing** agent  
 containing cerium oxide grain and method of polishing semiconductor chip  
 substrate using the same

IN Sakurada, Takeshi  
 PA Hitachi Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM H01L021-304  
 ICS B24B037-00; C09K003-14

CC 76-3 (Electric Phenomena)  
 Section cross-reference(s): 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003017445	A2	20030117	JP 2001-197275	20010628
PRAI	JP 2001-197275		20010628		
OS	MARPAT 138:116223				

date

AB The **CMP** agent comprises a Ce oxide grain, a water-sol. polymer,  
 a complex-forming agent, and water, in which a concn. of the  
 complex-forming agent is set at 0.1-10.0 %. The complex-forming agent is  
 .beta.-diketone represented by R1C(:O)CHR3C(:O)R2 (E1,2 = alkyl; and R3 =  
 H, C1-3 alkyl) or acetylacetone. The water-sol. polymer may be selected  
 from water-sol. anionic surfactants and water-sol. nonionic surfactants.

The **CMP** agent is used to polish a semiconductor chip substrate  
 having a silicon oxide insulating film. The **CMP** agent exhibited  
 an improved rinsing performance.

ST chem mech polishing silicon oxide insulating film semiconductor substrate;  
 diketone acetylacetone complex forming agent; surfactant water sol polymer

IT Ketones, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (1,3-diketones, complexing agent; **CMP** agent contg. Ce oxide  
 grain for polishing semiconductor chip)

IT Complexing agents

Polishing

Polishing materials

Semiconductor materials

(**CMP** agent contg. Ce oxide grain for polishing semiconductor  
 chip)

IT Surfactants

(anionic; **CMP** agent contg. Ce oxide grain for polishing  
 semiconductor chip)

IT Surfactants

(nonionic; **CMP** agent contg. Ce oxide grain for polishing  
 semiconductor chip)

IT 7631-86-9, Silicon oxide, processes

RL: PEP (Physical, engineering or chemical process); PYP (Physical  
 process); TEM (Technical or engineered material use); PROC (Process); USES  
 (Uses)

(CMP agent contg. Ce oxide grain for polishing semiconductor chip)  
 IT 1306-38-3, Cerium oxide, uses 7732-18-5, Water, uses 9003-03-6, Polyacrylic acid ammonium salt  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (CMP agent contg. Ce oxide grain for polishing semiconductor chip)  
 IT 123-54-6, Acetylacetone, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (complexing agent; CMP agent contg. Ce oxide grain for polishing semiconductor chip)

=> d 19, 1,2, all

2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
 The answer numbers requested are not in the answer set.  
 ENTER ANSWER NUMBER OR RANGE (1):1-2

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 AN 2003:40516 CAPLUS  
 DN 138:116223

TI **Chemical mechanical polishing agent**  
 containing cerium oxide grain and method of polishing semiconductor chip substrate using the same  
 IN Sakurada, Takeshi  
 PA Hitachi Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM H01L021-304  
 ICS B24B037-00; C09K003-14  
 CC 76-3 (Electric Phenomena)  
 Section cross-reference(s): 46  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003017445	A2	20030117	JP 2001-197275	20010628
PRAI	JP 2001-197275		20010628		
OS	MARPAT 138:116223				
AB	The <b>CMP</b> agent comprises a Ce oxide grain, a water-sol. polymer, a complex-forming agent, and water, in which a concn. of the complex-forming agent is set at 0.1-10.0 %. The complex-forming agent is .beta.-diketone represented by R1C(:O)CHR3C(:O)R2 (E1,2 = alkyl; and R3 = H, C1-3 alkyl) or acetylacetone. The water-sol. polymer may be selected from water-sol. anionic surfactants and water-sol. nonionic surfactants. The <b>CMP</b> agent is used to polish a semiconductor chip substrate having a silicon oxide insulating film. The <b>CMP</b> agent exhibited an improved rinsing performance.				
ST	chem mech polishing silicon oxide insulating film semiconductor substrate; diketone acetylacetone complex forming agent; surfactant water sol polymer				
IT	Ketones, uses RL: TEM (Technical or engineered material use); USES (Uses) (1,3-diketones, complexing agent; <b>CMP</b> agent contg. Ce oxide grain for polishing semiconductor chip)				
IT	Complexing agents Polishing Polishing materials Semiconductor materials (CMP agent contg. Ce oxide grain for polishing semiconductor chip)				
IT	Surfactants				

(anionic; **CMP** agent contg. Ce oxide grain for polishing semiconductor chip)

IT Surfactants  
(nonionic; **CMP** agent contg. Ce oxide grain for polishing semiconductor chip)

IT 7631-86-9, Silicon oxide, processes  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(**CMP** agent contg. Ce oxide grain for polishing semiconductor chip)

IT 1306-38-3, Cerium oxide, uses 7732-18-5, Water, uses 9003-03-6, Polyacrylic acid ammonium salt  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**CMP** agent contg. Ce oxide grain for polishing semiconductor chip)

IT 123-54-6, Acetylacetone, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(complexing agent; **CMP** agent contg. Ce oxide grain for polishing semiconductor chip)

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

AN 2000:865401 CAPLUS

DN 134:43456

TI Production of polysiloxane-based composition for electric insulating coating film

IN Nishikawa, Michinori; Kakuta, Mayumi; Hakamazuka, Akiko; Ebisawa, Masahiko; Yamada, Kinji

PA JSR Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08G077-18

ICS C08G077-50; C09D183-06; C09D183-14; H01L021-312

CC 42-10 (Coatings, Inks, and Related Products)

Section-cross-reference(s): 37

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000344893	A2	20001212	JP 1999-154630	19990602
PRAI	JP 1999-154630		19990602		

OS MARPAT 134:43456

AB Title coating film for semiconductor elements with suitable uniform thickness, good dielec. const., storage stability and **CMP**-resistance is prepd. by hydrolysis of  $\text{R}_1\text{Si}(\text{OR}_2)_4\text{-a}$  ( $\text{R}_1$ : H, F, monovalent org. group;  $\text{R}_2$ : monovalent org. group;  $\text{a} = 0-2$ ) and  $(\text{A}-2) \text{R}_3\text{b}(\text{R}_4\text{O})_3\text{-bSi}(\text{R}_7)\text{dSi}(\text{OR}_5)_3\text{-cR}_6\text{c}$  [ $\text{R}_3$ ,  $\text{R}_4$ ,  $\text{R}_5$ , and  $\text{R}_6$ : monovalent org. group;  $\text{b}$ ,  $\text{c} = 0-2$ ;  $\text{R}_7$ : O,  $-(\text{CH}_2)_n$ ;  $\text{d} = 0-1$ ;  $\text{n} = 1-6$ ] in the presence of solvent (B)  $\text{R}_8\text{O}(\text{CHCH}_3\text{CH}_2\text{O})_n\text{R}_9$  ( $\text{R}_8$ ,  $\text{R}_9$ : H, C1-4 alkyl,  $\text{CH}_3\text{CO}$ -;  $\text{d} = 1-2$ ) and alc. (C) having b.p. at normal pressure  $< 100^\circ\text{C}$ . Thus a compn. prepd. by reaction of methyltrimethoxysilane with bis(triethoxysilyl)methane in the presence of propylene glycol monomethyl ether and ethanol was spin-coated on a silicone wafer for testing, showing dielec. const. 2.67, good storage stability, and **CMP** (chem.-mech. polishing)-resistance.

ST polysiloxane compn coating elec insulator

IT Electric insulators

(coatings; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT Polyoxyalkylenes, uses

RL: MOA (Modifier or additive use); USES (Uses)

(compn. contg.; prodn. and properties of polysiloxane-based compn. for elec. insulating coating film)

IT Polyoxyalkylenes, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (compn. contg.; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT Polysiloxanes, uses  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polycarbosilane-; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT Dielectric constant  
 Thickness  
 (prodn. and properties of polysiloxane-based compn. for elec. insulating coating film)

IT Polymerization  
 Polymerization catalysts  
 (prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT Polycarbosilanes  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (siloxane-; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT Alcohols, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (solvent; prodn. and properties of polysiloxane-based compn. for elec. insulating coating film)

IT 110-16-7, Maleic acid, uses 27858-32-8, Diisopropoxytitanium bis(ethylacetylacetate)  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalyst; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT 123-54-6, Acetylacetone, uses 25322-68-3, Poly(ethylene glycol) 26655-94-7, Poly(isopropyl methacrylate)  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (compn. contg.; prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT 304916-06-1P 304916-08-3P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prodn. of polysiloxane-based compn. for elec. insulating coating film)

IT 64-17-5, Ethanol, uses 67-56-1, Methanol, uses 1320-67-8, Propylene glycol monomethyl ether 30136-13-1, Propylene glycol monopropyl ether  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (solvent; prodn. of polysiloxane-based compn. for elec. insulating coating film)

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

E 2,4-PENTADIONE DIOXIME

L1 0 S E3

E 2,4-PENTADIONE

L2 5 S E3

E 2,4-PENTADIONE DIOXIME/CN X

L3 0 S E3



L4 E 2,4-PENTADIONE/CN  
1 S E3  
L5 E 2,4-PENTADIONE DIOXIME/CN  
0 S E3  
L6 E 2,4 PENTADIONE DIOXIME/CN  
0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003  
S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003  
L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003  
L8 11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.12	73.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 1 APR 2003 HIGHEST RN 501325-53-7  
DICTIONARY FILE UPDATES: 1 APR 2003 HIGHEST RN 501325-53-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s pentadione/cns and dioxime/cns  
9 PENTADIONE/CNS  
15278 DIOXIME/CNS  
L10 0 PENTADIONE/CNS AND DIOXIME/CNS

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003  
E 2,4-PENTADIONE DIOXIME  
X L1 0 S E3  
E 2,4-PENTADIONE

L2 5 S E3  
 E 2,4-PENTADIONE DIOXIME/CN  
 L3 0 S E3.  
 E 2,4-PENTADIONE/CN  
 L4 1 S E3  
 E 2,4-PENTADIONE DIOXIME/CN  
 L5 0 S E3  
 E 2,4 PENTADIONE DIOXIME/CN  
 L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003  
 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003  
 L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003  
 L8 11819 S L7  
 L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003  
 L10 0 S PENTADIONE/CNS AND DIOXIME/CNS

=> s ?dion?/cns and ?oxime?/cns  
 726592 ?DION?/CNS  
 125993 ?OXIME?/CNS  
 L11 22804 ?DION?/CNS AND ?OXIME?/CNS

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	17.28	90.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.95

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003  
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FILE COVERS 1907 - 2 Apr 2003 VOL 138 ISS 14  
 FILE LAST UPDATED: 1 Apr 2003 (20030401/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003 .

E 2,4-PENTADIONE DIOXIME  
L1 0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 .1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8 11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10 0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

=> s cmp or polish? or chemipolish? or chemimech? or planariz? or lap? or grind? or  
abrad?

7829 CMP  
76871 POLISH?  
----- 1 -CHEMIPOLISH?  
497 CHEMIMECH?  
5695 PLANARIZ?  
32075 LAP?  
61775 GRIND?  
4615 ABRAD?  
L12 179225 CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
LAP? OR GRIND? OR ABRAD?

=> s l11 and l12

12123 L11  
L13 28 L11 AND L12

=> d ti 1-28

L13 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2003 ACS  
TI Chemical mechanical **polishing** compositions

L13 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2003 ACS  
TI Dynamic modeling of the central carbon metabolism of Escherichia coli

L13 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2003 ACS  
TI Method of **polishing** silicon wafer without metal contamination

L13 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2003 ACS  
TI **Polishing** system and method of its use

L13 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Features of a flexible backbone in the coordination compounds of a dioxime ligand: the characterization of supramolecular and dinuclear metal complexes

L13 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Infinite, undulating chains of intermolecularly hydrogen bonded (E,E)-2,2-dimethylcyclohexane-1,3-dione dioximes in the solid state. A single crystal x-ray, charge density distribution and spectroscopic study

L13 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Antipsoriatic nail **polishes** containing glucocorticoids

L13 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Manufacture of self-sintering carbon and carbon materials

L13 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Production of polymer emulsions from olefinically unsaturated monomers

L13 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Ultraviolet-curable conductive resin

L13 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Evaluation of German and **Polish** herbicides in sugar beets

L13 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI **Polishable** and robust modified graphite epoxy electrodes

L13 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Optimization of particle-size composition of pigments and fluorescent brighteners by coloristic characteristics

L13 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Bath for vibroabrasive **grinding** and **polishing** of steel

~~L13 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2003 ACS~~  
~~TI Nitrogen derivatives from oxo compounds~~

L13 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Oxygen RIE-resistant deep-UV positive resists: poly(trimethylsilylmethyl methacrylate) and poly(trimethylsilylmethyl methacrylate-co-3-oximo-2-butanone methacrylate)

L13 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Experimental study of the **grinding** of nitrogen pigments in vortical electromagnetic apparatus

L13 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Effect of the modification of nickel surface by internal complexes on the electrochemical activity of the metal

L13 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Intrachromospheruloid/inorganic pigment compositions

L13 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Intrachromospheruloid pigments

L13 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Abrasive member of bonded aggregates in an elastomeric matrix

L13 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2003 ACS

TI Chamber for optical studies at pressures up to 50 kbar and temperatures from 80 to 300.deg.K

L13 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI RTV [room tempeeature vulcanizing] adhesive system based on ethylene-propylene-diene terpolymer

L13 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Hot-melt adhesives of polyamides containing oxime compounds or esters

L13 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Hot-melt adhesives of polyolefins containing oxime compounds or their esters

L13 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Encapsulating lipophilic material by coacervation

L13 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI Some new carrier separation methods in trace analysis

L13 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 TI 3- and 20-Monoximes of 11.beta.-hydroxy-5.beta.-pregnane-3,20-dione and their corresponding 11-methyl, 11-allyl, and 11-methallyl derivatives

=> d all 1,3-4,14

L13 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:616331 CAPLUS  
 DN 137:178133  
 TI Chemical mechanical **polishing** compositions  
 IN Small, Robert J.; McGhee, Laurence; Maloney, David J.; Peterson, Maria L.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 481,050.  
 CODEN: USXXCO  
 DT Patent

LA English

IC ICM H01L021-302

ICS H01L021-461

NCL 438689000

CC 76-3 (Electric Phenomena)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002111024	A1	20020815	US 2001-985870	20011106
	WO 9804646	A1	19980205	WO 1997-US12220	19970721
	W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	US 6117783	A	20000912 ✓	US 1998-43505	19980323
	US 6313039	B1	20011106 ✓	US 2000-481050	20000111
PRAI	US 1996-23299P	P	19960726		
	WO 1997-US12220	W	19970721 ✓		
	US 1998-43505	A1	19980323		
	US 2000-481050	A2	20000111		

AB A compn. for chem. mech. **polishing** that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing

compd. is provided to produce a differential removal of a metal and a dielec. material. A pH adjusting compd. adjusts the pH of the compn. to provide a pH that makes the selectively oxidizing and reducing compd. provide the differential removal of a metal and a dielec. material. A compn. may include an effective amt. of an hydroxylamine compd., ammonium persulfate, a compd. which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. **polishing** is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the metal and dielec. material.

ST chem mech **polishing** slurry semiconductor device ..

#### **planarization**

IT Diffusion barrier  
Integrated circuits  
Oxidation  
Reduction  
pH

(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT **Polishing**

(chem.-mech., **planarization**; chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT Semiconductor device fabrication

(**planarization**; chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 78-10-4P, TEOS 7440-25-7P, Tantalum, uses 7440-33-7P, Tungsten, uses 7440-50-8P, Copper, uses 12033-62-4P, Tantalum nitride TaN

RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 57-13-6D, Urea, hydrogen peroxide complex 77-92-9, Citric acid, reactions --79-21-0, Peracetic acid--87-69-4, Tartaric acid, reactions 95-14-7, 1H-Benzotriazole 108-13-4, Malonamide 110-15-6, Succinic acid, reactions 141-82-2, Malonic acid, reactions 144-62-7, Oxalic acid, reactions 288-32-4, Imidazole, reactions 302-01-2, Hydrazine, reactions **2157-56-4**, 2,4-Pentanedione dioxime 7335-69-5, Hydrazine benzoate 7664-93-9, Sulfuric acid, reactions 7722-84-1, Hydrogen peroxide, reactions 7722-84-1D, Hydrogen peroxide, urea complex 7722-86-3, Peroxymonosulfuric acid 7727-54-0, Ammonium persulfate 7758-05-6, Potassium iodate 7790-21-8, Potassium periodate 7803-49-8, Hydroxylamine, reactions 10039-54-0, Hydroxylamine sulfate 10361-76-9, Potassium peroxydisulfate 13444-71-8, Periodic acid 13465-08-2, Hydroxylamine nitrate 21111-84-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

L13 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2003 ACS

AN 2001:798748 CAPLUS

DN 135:326050

TI Method of **polishing** silicon wafer without metal contamination

IN Kawasaki, Nobuyuki; Mori, Masanori

PA Sumitomo Metal Industries, Ltd., Japan

SO U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DT Patent

*not useful*

LA English  
IC ICM B24B001-00  
NCL 451041000  
CC 76-2 (Electric Phenomena)  
Section cross-reference(s): 66

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001036799	A1	20011101	US 2001-842016	20010426
	US 6383060	B2	20020507		
PRAI	JP 2000-128529	A	20000427		

AB Mirror-polishing of a Si wafer is conducted using an abrasive agent which contains SiO<sub>2</sub> as a principal ingredient, and either one of the ingredients set forth at (1) and (2): (1) an ingredient which is selected from alkali sulfide, alkali hydrogen sulfide, and the mixt. thereof; and (2) a chelate agent which contains at least .alpha.-benzoinoxime, diethyldithiocarbamic acid, cupferron, xanthogenic acid, neocupferron, beryllon II, .beta.-quinolinol, 1,1,1-trifluoro-3(2-thenoyl)acetone, dimethylglyoxime, and 1-(2-pyridylazo)-2-naphthol.

ST polishing silicon sulfide chelating agent

IT Abrasives

**Polishing**

(polishing silicon wafer without metal contamination)

IT Alkali metal sulfides

Chelates

RL: TEM (Technical or engineered material use); USES (Uses)

(polishing silicon wafer without metal contamination)

IT 7440-21-3, Silicon, processes

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(polishing silicon wafer without metal contamination)

IT 59-31-4, 2-Quinolinol 85-85-8, 1-(2-Pyridylazo)-2-naphthol

95-45-4, Dimethylglyoxime 135-20-6, Cupferron 147-84-2,  
Diethyldithiocarbamic acid, uses 151-01-9, Xanthogenic acid 326-91-0,  
1,1,1-Trifluoro-3(2-thenoyl)acetone 441-38-3, .alpha.-Benzoinoxime  
1013-20-3, Neocupferron 7631-86-9, Silica, uses 15035-72-0D, Sulfide  
(HS1-), alkali 51550-25-5, Beryllon II

RL: TEM (Technical or engineered material use); USES (Uses)

(polishing silicon wafer without metal contamination)

L13 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2003 ACS

AN 2001:137314 CAPLUS

DN 134:194691

TI Polishing system and method of its use

IN Wang, Shumin; Kaufman, Vlasta Brusic; Grumbine, Steven K.; Zhou, Renjie; Cherian, Isaac K.

PA Cabot Microelectronics Corporation, USA

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C09G001-02

CC 42-11 (Coatings, Inks, and Related Products)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012740	A1	20010222	WO 2000-US21938	20000810

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA,

not  
useful

ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 EP 1226220 A1 20020731 EP 2000-953960 20000810  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 JP 2003507895 T2 20030225 JP 2001-517628 20000810  
 PRAI US 1999-148813P P 19990813  
 WO 2000-US21938 W 20000810  
 OS MARPAT 134:194691  
 AB The invention provides a system for **polishing** one or more layers  
 of a multi-layer substrate that includes a first metal layer and a second  
 layer comprising (i) a liq. carrier, (ii) at least one oxidizing agent,  
 (iii) at least one **polishing** additive that increases the rate at  
 which the system **polishes** at least one layer of the substrate,  
 wherein the **polishing** additive is selected from the group  
 consisting of pyrophosphates, condensed phosphates, phosphonic acids and  
 salts thereof, amines, amino alcs., amides, imines, imino acids, nitriles,  
 nitros, thiols, thioesters, thioethers, carbothiolic acids, carbothionic  
 acids, thiocarboxylic acids, thiosalicylic acids, and mixts. thereof, and  
 (iv) a **polishing** pad and/or an abrasive. The invention also  
 provides a method of **polishing** a substrate comprising contacting  
 a surface of a substrate with the system and **polishing** at least  
 a portion of the substrate therewith. Moreover, the invention provides a  
 method for **polishing** one or more layers of a multi-layer  
 substrate that includes a first metal layer and a second layer comprising  
 (a) contacting the first metal layer with the system, and (b)  
**polishing** the first metal layer with the system until at least a  
 portion of the first metal layer is removed from the substrate.  
 ST **polish** oxidizing agent additive abrasive  
 IT Alcohols, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (amino; **polishing** system and method of its use)  
 IT Carboxylic acids, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (imino; **polishing** system and method of its use)  
 IT Abrasives  
 Oxidizing agents  
**Polishing** materials  
 (**polishing** system and method of its use)  
 IT Amides, uses  
 Amines, uses  
 Imines  
 Nitriles, uses  
 Thioethers  
 Thiols (organic), uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (**polishing** system and method of its use)  
 IT Peroxides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**polishing** system and method of its use)  
 IT Esters, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (thio; **polishing** system and method of its use)  
 IT Carboxylic acids, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (thiocarboxylic; **polishing** system and method of its use)  
 IT 112-02-7, Cetyltrimethyl ammonium chloride  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (Varisoft 300; **polishing** system and method of its use)  
 IT 56-18-8, N-(3-Aminopropyl)-1,3-propane diamine 56-87-1, Lysine, uses



68-11-1, Thioglycolic acid, uses 87-69-4, Tartaric acid, uses  
**95-45-4**, Dimethylglyoxime 96-20-8, 2-Amino-1-butanol 107-10-8,  
 Propylamine, uses 107-15-3, Ethylenediamine, uses 111-41-1 111-51-3,  
 N,N,N',N'-Tetramethyl-1,4-butanediamine 112-57-2, Tetraethylenepentamine  
 124-09-4, Hexamethylene-diamine, uses 142-73-4, Iminodiacetic acid  
 506-93-4, Guanidine nitrate 616-29-5, 1,3-Diamino-2-propanol 628-87-5,  
 Iminodiacetonitrile 929-06-6, 2-(2-Aminoethoxy)ethanol 1122-28-7,  
 1H-Imidazole-4,5-dicarbonitrile 2809-21-4, Dequest 2010 2855-13-2,  
 Isophorone diamine 3312-60-5, N-Cyclohexyl-1,3-propane diamine  
 4246-51-9, 4,7,10-Trioxa-1,13-tridecanediamine 4408-78-0,  
 Phosphonoacetic acid 5994-61-6, N-Phosphono-methyliminodiacetic acid  
 6419-19-8, Dequest 2000 7209-38-3, 1,4-Bis(3-aminopropyl) piperazine  
 7320-34-5, Potassium pyrophosphate 9002-98-6, Lupasol P 15827-60-8,  
 Dequest 2060 16854-32-3, Thiomicamine 19847-12-2, Pyrazine  
 carbonitrile 36465-90-4, Di-phosphonic acid 116770-99-1, Lupasol  
 SC-61B 316356-99-7, Lupasol SKA

RL: MOA (Modifier or additive use); USES (Uses)

(**polishing** system and method of its use)

IT 1306-38-3, Ceria, uses 1310-53-8, Germania, uses 1314-23-4, Zirconia,  
 uses 1344-28-1, Alumina, uses 7631-86-9, Silica, uses 7722-84-1,  
 Hydrogen peroxide, uses 13463-67-7, Titania, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(**polishing** system and method of its use)

IT 7440-25-7, Tantalum, processes 7440-50-8, Copper, processes

RL: PEP (Physical, engineering or chemical process); PROC (Process)

(wafers; **polishing** system and method of its use)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Cabot Corp; EP 0896042 A 1999 CAPLUS

(2) Fujimi Inc; EP 0845512 A 1998 CAPLUS

L13 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2003 ACS

AN 1987:21820 CAPLUS

DN 106:21820

TI Bath for vibroabrasive **grinding** and **polishing** of steel

IN Bereshchenko, A. A.; Kovalev, V. I.; Shainskii, M. E.; Ignatenko, O. G.;

~~Bereshchenko, A. S.; Kovalev, O. V.~~

PA Voroshilovgrad Machine-Building Institute, USSR

SO U.S.S.R.

From: Otkrytiya, Izobret. 1986, (34), 87.

CODEN: URXXAF

DT Patent

LA Russian

IC ICM C23G005-00

CC 55-6 (Ferrous Metals and Alloys)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 1257118	A1	19860915	SU 1985-3877841	19850207
PRAI	SU 1985-3877841		19850207		
AB	Etching productivity and surface quality are increased by addn. of HNO3 0.5-1.0, disodium and/or dipotassium oxalate 1.0-2.0, and dimethylglyoxime 0.05-0.07% to the bath contg. H2SO4 0.2-0.3, oxalic acid 2.4-2.8, 30% H2O2 2.1-2.4, chromic acid anhydride 0.1-0.2, Sulfonol (as Na-salt mixt. of alkylbenzenesulfonic acids with C11-18 alkyl paraffinic residues) 0.01-0.03%, and balance water.				
ST	etching bath vibration <b>polishing</b> steel; nitric acid bath <b>polishing</b> steel; oxalate bath <b>polishing</b> steel; dimethylglyoxime bath <b>polishing</b> steel				
IT	Etching				
	(of steel, vibroabrasive <b>polishing</b> and, aq. bath for)				
IT	<b>Polishing</b>				

(vibroabrasive, of steel, aq.)  
IT 62-76-0, Disodium oxalate 95-45-4, Dimethylglyoxime 144-62-7,  
Oxalic acid, uses and miscellaneous 7664-93-9, Sulfuric acid, uses and  
miscellaneous 7697-37-2, Nitric acid, uses and miscellaneous  
7722-84-1, Hydrogen peroxide, uses and miscellaneous 7738-94-5  
12653-83-7, Sulfonol  
RL: USES (Uses)  
(etching bath contg., for vibroabrasive **polishing** of steel)

=> s 95-45-4

**REGISTRY INITIATED**

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L15 1328 L14

=> d histr

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APPS ----- AI, PRAI  
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CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
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IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)

containing hit terms

HITRN ----- HIT RN and its text modification

HITSTR ----- HIT.RN, its text modification, its CA index name, and its structure diagram

HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram

FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

KWIC ----- Hit term plus 20 words on either side

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FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

E 2,4-PENTADIONE DIOXIME

L1 0 S E3

E 2,4-PENTADIONE

L2 5 S E3

E 2,4-PENTADIONE DIOXIME/CN

L3 0 S E3

-----E-2,4-PENTADIONE/CN-----

L4 1 S E3

E 2,4-PENTADIONE DIOXIME/CN

L5 0 S E3

E 2,4 PENTADIONE DIOXIME/CN

L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8 11819 S L7

L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10 0 S PENTADIONE/CNS AND DIOXIME/CNS

L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

L12 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR

L13 28 S L11 AND L12

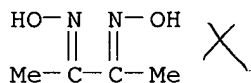
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003  
L14 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003  
L15 1328 S L14

=> d hitstr

L15 ANSWER 1 OF 1328 CAPLUS COPYRIGHT 2003 ACS  
IT X 95-45-4, Dimethylglyoxime  
RL: RCT (Reactant); RACT (Reactant or reagent)..  
(sulfonyl compd. as radiation sensitive acid generator in radiation  
sensitive chem. amplified resist resin compn.)  
RN 95-45-4 CAPLUS  
CN 2,3-Butanedione, dioxime (8CI, 9CI) (CA INDEX NAME)



=> file reg

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Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s ?hydrazine?/cns and ?benzoic?/cns

100223 ?HYDRAZINE?/CNS  
560034 ?BENZOIC?/CNS

L16 680 ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.84

139.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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FILE LAST UPDATED: 1 Apr 2003 (20030401/ED)

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=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

L1 E-2,4-PENTADIONE DIOXIME  
0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8 11819 S L7

L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10 0 S PENTADIONE/CNS AND DIOXIME/CNS

L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003  
L12 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003  
L14 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003  
L15 1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003  
L16 680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003

=> s l16 and l12

5496 L16

L17 4 L16 AND L12

=> d kwic 1-4

L17 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Chemical mechanical **polishing** compositions

AB A compn. for chem. mech. **polishing** that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing compd. is provided to produce. . . which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. **polishing** is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the. . .

ST chem mech **polishing** slurry semiconductor device  
**planarization**

IT Diffusion barrier  
Integrated circuits

Oxidation

Reduction

pH

(chem. mech. **polishing** compns. slurry for  
**planarization** of semiconductor wafers by selective oxidn. and  
redn. with controlled pH)

IT **Polishing**

(chem.-mech., **planarization**; chem. mech. **polishing**  
compns. slurry for **planarization** of semiconductor wafers by  
selective oxidn. and redn. with controlled pH)

IT Semiconductor device fabrication

(**planarization**; chem. mech. **polishing** compns.  
slurry for **planarization** of semiconductor wafers by selective  
oxidn. and redn. with controlled pH)

IT 78-10-4P, TEOS 7440-25-7P, Tantalum, uses 7440-33-7P, Tungsten, uses  
7440-50-8P, Copper, uses 12033-62-4P, Tantalum nitride TaN

RL: DEV (Device component use); PNU (Preparation, unclassified); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)

(chem. mech. **polishing** compns. slurry for  
**planarization** of semiconductor wafers by selective oxidn. and  
redn. with controlled pH)

IT 57-13-6D, Urea, hydrogen peroxide complex 77-92-9, Citric acid, reactions  
79-21-0, Peracetic acid 87-69-4, Tartaric acid, reactions  
95-14-7, 1H-Benzotriazole 108-13-4, Malonamide 110-15-6, Succinic  
acid, reactions 141-82-2, Malonic acid, reactions 144-62-7, Oxalic  
acid, reactions 288-32-4, Imidazole, reactions 302-01-2, Hydrazine,

reactions 2157-56-4, 2,4-Pentanedione dioxime **7335-69-5**, Hydrazine benzoate 7664-93-9, Sulfuric acid, reactions 7722-84-1, Hydrogen peroxide, reactions 7722-84-1D, Hydrogen peroxide, urea complex 7722-86-3, Peroxymonosulfuric acid 7727-54-0, Ammonium persulfate 7758-05-6, Potassium iodate 7790-21-8, Potassium periodate 7803-49-8, Hydroxylamine, reactions 10039-54-0, Hydroxylamine sulfate 10361-76-9, Potassium peroxymonosulfate 13444-71-8, Periodic acid 13465-08-2, Hydroxylamine nitrate 21111-84-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

L17 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB . . . time. Eleven acyl thiosemicarbazides have been synthesized at room temp. in 84.5-91.0% yields from aryl isothiocyanates and acylhydrazines. For example, **grinding** a mixt. of PhNCS with PhCONHNH2 in an agate mortar for 7 min. gave 89.1% PhNHCSNHNHCOPh.

IT **613-94-5 1673-47-8** 1985-12-2 2131-55-7 3460-49-9  
4664-55-5 34800-90-3

RL: RCT (Reactant); RACT (Reactant or reagent)  
(solid-state method for prepn. of acyl thiosemicarbazides from aryl isothiocyanates and acylhydrazines)

L17 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB . . . filler for polyolefin compns., which is surface-treated with fatty acid but does not evolve products upon heating, is produced by **grinding** a preground material to particle size 1-15 .mu.m in the presence of 0.1-5% C12-22 fatty acids and 0.01-1% antioxidants and. . . heavy metals present in limestone, and prevent formation of bubbles in the processed polyolefin. A typical filler was prepd. by **grinding** limestone 100, stearin 1, and 2,6-di-tert-butyl-p-cresol [128-37-0] 0.2 parts.

IT 128-37-0, uses and miscellaneous 693-36-7 2082-79-3 6345-72-8  
6683-19-8 **23647-78-1** 26523-78-4 27676-62-6 31570-04-4  
32509-66-3 41484-35-9 90118-48-2

RL: USES-(Uses)  
(antioxidants, limestone filler treatment with fatty acids in presence of, for bubble-free polyolefin compns.)

L17 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB cf. CA 65: 7512d. Malonyl hydrazide reacts with **CMP** and dCMP in aq. solns. with a pH optimum of 4.2, giving addn. products. AMP, GMP, UMP, and corresponding nucleosides. . . and 3,4-dicarboxybenzoylhydrazine enter similar reactions, although the low soly. of the latter makes long reaction times necessary. 3,5-Disulfobenzoylhydrazine couples to **CMP** with a lower rate const. than do the other hydrazides studied. Poly(cytidylic acid) can be converted to a polymer in. . .

ST HYDRAZIDES NUCLEIC ACIDS; NUCLEIC ACIDS HYDRAZIDES; NUCLEOTIDES HYDRAZIDES; **CMP** ACYL HYDRAZIDES; CYTOSINE ACYL HYDRAZIDES

IT 1068-57-1 3815-86-9 17013-02-4 **18490-22-7**

RL: BIOL (Biological study)  
(reaction with 5'-cytidylic acid and 5'-deoxycytidylic acid)

=> d bib, ab 1-4

L17 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 2002:616331 CAPLUS

DN 137:178133

TI Chemical mechanical **polishing** compositions

IN Small, Robert J.; McGhee, Laurence; Maloney, David J.; Peterson, Maria L.  
PA USA  
SO U.S. Pat. Appl..Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 481,050.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002111024	A1	20020815	US 2001-985870	20011106
X	WO 9804646	A1	19980205	WO 1997-US12220	19970721
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
X	US 6117783	A	20000912	US 1998-43505	19980323
X	US 6313039	B1	20011106	US 2000-481050	20000111
PRAI	US 1996-23299P	P	19960726		
	WO 1997-US12220	W	19970721		
	US 1998-43505	A1	19980323		
	US 2000-481050	A2	20000111		

AB A compn. for chem. mech. **polishing** that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing compd. is provided to produce a differential removal of a metal and a dielec. material. A pH adjusting compd. adjusts the pH of the compn. to provide a pH that makes the selectively oxidizing and reducing compd. provide the differential removal of a metal and a dielec. material. A compn. may include an effective amt. of an hydroxylamine compd., ammonium persulfate, a compd. which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. **polishing** is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the metal and dielec. material.

L17 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 2001:556827 CAPLUS

DN 135:318299

TI An efficient solid-state method for the preparation of acyl thiosemicarbazides

Y AU Li, Jian-Ping; Luo, Qian-Fu; Wang, Yu-Lu; Wang, Hong

CS College of Chemistry and Environmental Science, Henan Normal University, Xixiang, 453002, Peop. Rep. China

SO Synthetic Communications (2001), 31(12), 1793-1797

CODEN: SYNCAV; ISSN: 0039-7911

PB Marcel Dekker, Inc.

DT Journal

LA English

OS CASREACT 135:318299

AB Solid-state syntheses of acyl thiosemicarbazides are reported for the first time. Eleven acyl thiosemicarbazides have been synthesized at room temp. in 84.5-91.0% yields from aryl isothiocyanates and acylhydrazines. For example, **grinding** a mixt. of PhNCS with PhCONHNH2 in an agate mortar for 7 min. gave 89.1% PhNHCSNHNHCOPh.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1984:193080 CAPLUS



DN 100:193080  
 TI Microground limestone filler  
 IN Pac, Jiri; Petruj, Jaroslav; Vesely, Karel; Kratochvil, Frantisek;  
 Krivanek, Josef; Rovner, Jiri; Smrz, Jiri; Baburek, Jiri; Penicka,  
 Jaroslav  
 PA Czech.  
 SO Czech., 7 pp.  
 CODEN: CZXXA9  
 DT Patent  
 LA Czech

FAN.CNT 1.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 208547	B	19810915	CS 1979-524	19790124
PRAI	CS 1979-524		19790124		

AB Nonagglomerating limestone filler for polyolefin compns., which is surface-treated with fatty acid but does not evolve products upon heating, is produced by **grinding** a preground material to particle size 1-15 .mu.m in the presence of 0.1-5% C12-22 fatty acids and 0.01-1% antioxidants and deactivators (substituted phenols, thiodipropionic and phosphite esters, and/or derivs. of ethylenediamine and hydrazine). Antioxidants prevent acid oxidn., which is catalyzed by heavy metals present in limestone, and prevent formation of bubbles in the processed polyolefin. A typical filler was prepd. by **grinding** limestone 100, stearin 1, and 2,6-di-tert-butyl-p-cresol [128-37-0] 0.2 parts.

L17 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1967:450388 CAPLUS

DN 67:50388

TI Electron microscopic study of base sequence in nucleic acids. VII. Cytosine-specific addition of acyl hydrazides

AU Gal-Or, Leah; Mellema, Jan E.; Moudrianakis, Evangelos N.; Beer, Michael

CS Johns Hopkins Univ., Baltimore, MD, USA

SO Biochemistry (1967), 6(7), 1909-15

CODEN: BICHAW; ISSN: 0006-2960

DT Journal

LA English

AB cf. CA 65: 7512d. Malonyl hydrazide reacts with **CMP** and dCMP in aq. solns. with a pH optimum of 4.2, giving addn. products. AMP, GMP, UMP, and corresponding nucleosides and deoxynucleotides do not react the same way. Acetyl hydrazide and 3,4-dicarboxybenzoylhydrazine enter similar reactions, although the low soly. of the latter makes long reaction times necessary. 3,5-Disulfobenzoylhydrazine couples to **CMP** with a lower rate const. than do the other hydrazides studied. Poly(cytidylic acid) can be converted to a polymer in which 70% of the residues have been converted to the addn. product with malonyl hydrazide. When RNA is so treated, 85% of the cytosine residues can be converted to the addn. product. The other bases are not altered. The significance of these results in the electron microscopic study of nucleotide sequence are discussed.

=> d all 1

L17 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 2002:616331 CAPLUS

DN 137:178133

TI Chemical mechanical **polishing** compositions

IN Small, Robert J.; McGhee, Laurence; Maloney, David J.; Peterson, Maria L.

PA USA

SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 481,050.

CODEN: USXXCO

DT Patent  
 LA English  
 IC ICM H01L021-302  
 ICS H01L021-461  
 NCL 438689000  
 CC 76-3 (Electric Phenomena)  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002111024	A1	20020815	US 2001-985870	20011106
	WO 9804646	A1	19980205	WO 1997-US12220	19970721
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6117783	A	20000912	US 1998-43505	19980323
	US 6313039	B1	20011106	US 2000-481050	20000111
PRAI	US 1996-23299P	P	19960726		
	WO 1997-US12220	W	19970721		
	US 1998-43505	A1	19980323		
	US 2000-481050	A2	20000111		
AB	A compn. for chem. mech. <b>polishing</b> that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing compd. is provided to produce a differential removal of a metal and a dielec. material. A pH adjusting compd. adjusts the pH of the compn. to provide a pH that makes the selectively oxidizing and reducing compd. provide the differential removal of a metal and a dielec. material. A compn. may include an effective amt. of an hydroxylamine compd., ammonium persulfate, a compd. which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. <b>polishing</b> is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the metal and dielec. material.				
ST	chem mech <b>polishing</b> slurry semiconductor device				
	<b>planarization</b>				
IT	Diffusion barrier				
	Integrated circuits				
	Oxidation				
	Reduction				
	pH				
	(chem. mech. <b>polishing</b> compns. slurry for <b>planarization</b> of semiconductor wafers by selective oxidn. and redn. with controlled pH)				
IT	<b>Polishing</b>				
	(chem.-mech., <b>planarization</b> ; chem. mech. <b>polishing</b> compns. slurry for <b>planarization</b> of semiconductor wafers by selective oxidn. and redn. with controlled pH)				
IT	Semiconductor device fabrication				
	(planarization; chem. mech. <b>polishing</b> compns. slurry for <b>planarization</b> of semiconductor wafers by selective oxidn. and redn. with controlled pH)				
IT	78-10-4P, TEOS 7440-25-7P, Tantalum, uses 7440-33-7P, Tungsten, uses 7440-50-8P, Copper, uses 12033-62-4P, Tantalum nitride TaN				
	RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(chem. mech. <b>polishing</b> compns. slurry for <b>planarization</b> of semiconductor wafers by selective oxidn. and redn. with controlled pH)				

IT 57-13-6D, Urea, hydrogen peroxide complex 77-92-9, Citric acid, reactions 79-21-0, Peracetic acid 87-69-4, Tartaric acid, reactions 95-14-7, 1H-Benzotriazole 108-13-4, Malonamide 110-15-6, Succinic acid, reactions 141-82-2, Malonic acid, reactions 144-62-7, Oxalic acid, reactions 288-32-4, Imidazole, reactions 302-01-2, Hydrazine, reactions 2157-56-4, 2,4-Pentanedione dioxime **7335-69-5**, Hydrazine benzoate 7664-93-9, Sulfuric acid, reactions 7722-84-1, Hydrogen peroxide, reactions 7722-84-1D, Hydrogen peroxide, urea complex 7722-86-3, Peroxymonosulfuric acid 7727-54-0, Ammonium persulfate 7758-05-6, Potassium iodate 7790-21-8, Potassium periodate 7803-49-8, Hydroxylamine, reactions 10039-54-0, Hydroxylamine sulfate 10361-76-9, Potassium peroxydisulfate 13444-71-8, Periodic acid 13465-08-2, Hydroxylamine nitrate 21111-84-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (chem. mech. **polishing** comps. slurry for  
**planarization** of semiconductor wafers by selective oxidn. and  
 redn. with controlled pH)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

20.89

160.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-10.41

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STRUCTURE FILE UPDATES: - 1 APR 2003 HIGHEST-RN-501325-53=7 - - - - -

DICTIONARY FILE UPDATES: 1 APR 2003 HIGHEST RN 501325-53-7

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s ?pentadione?/cns and ?dioxime?/cns

13 ?PENTADIONE?/CNS

15451 ?DIOXIME?/CNS

L18 0 ?PENTADIONE?/CNS AND ?DIOXIME?/CNS

=> s ?pentanedione?/cns and ?dioxime?/cns

11859 ?PENTANEDIONE?/CNS

15451 ?DIOXIME?/CNS

L19 486 ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	17.68	177.83
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-10.41

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FILE COVERS 1907 - 2 Apr 2003 VOL 138 ISS 14  
 FILE LAST UPDATED: 1 Apr 2003 (20030401/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

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-----E 2,4-PENTADIONE-DIOXIME-----
L1      0 S E3
        E 2,4-PENTADIONE
L2      5 S E3
        E 2,4-PENTADIONE DIOXIME/CN
L3      0 S E3
        E 2,4-PENTADIONE/CN
L4      1 S E3
        E 2,4-PENTADIONE DIOXIME/CN
L5      0 S E3
        E 2,4 PENTADIONE DIOXIME/CN
L6      0 S E3
  
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FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003  
 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003  
 L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003  
 L8 11819 S L7  
 L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003  
 L10 0 S PENTADIONE/CNS AND DIOXIME/CNS  
 L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003  
L12 179225 S GMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003  
L14 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003  
L15 1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003  
L16 680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003  
L17 4 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003  
L18 0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003

=> s 119 and 112  
253 L19  
L20 2 L19 AND L12

=> d ti 1-2

L20 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
TI Chemical mechanical **polishing** compositions

L20 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
TI Features of a flexible backbone in the coordination compounds of a dioxime  
ligand: the characterization of supramolecular and dinuclear metal  
complexes

=> d all 1

→ L20 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:616331 CAPLUS  
DN 137:178133  
TI Chemical mechanical **polishing** compositions  
IN Small, Robert J.; McGhee, Laurence; Maloney, David J.; Peterson, Maria L.  
PA USA  
SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 481,050.  
CODEN: USXXCO  
DT Patent  
LA English  
IC ICM H01L021-302  
ICS H01L021-461  
NCL 438689000  
CC 76-3 (Electric Phenomena)  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002111024	A1	20020815	US 2001-985870	20011106
	WO 9804646	A1	19980205	WO 1997-US12220	19970721
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,				

LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,  
 UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,  
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,  
 GN, ML, MR, NE, SN, TD, TG

	US 6117783	A	20000912	US 1998-43505	19980323
	US 6313039	B1	20011106	US 2000-481050	20000111
PRAI	US 1996-23299P	P	19960726		
	WO 1997-US12220	W	19970721		
	US 1998-43505	A1	19980323		
	US 2000-481050	A2	20000111		

AB A compn. for chem. mech. **polishing** that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing compd. is provided to produce a differential removal of a metal and a dielec. material. A pH adjusting compd. adjusts the pH of the compn. to provide a pH that makes the selectively oxidizing and reducing compd. provide the differential removal of a metal and a dielec. material. A compn. may include an effective amt. of an hydroxylamine compd., ammonium persulfate, a compd. which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. **polishing** is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the metal and dielec. material.

ST chem mech **polishing** slurry semiconductor device

IT **planarization**

IT Diffusion barrier

Integrated circuits

Oxidation

Reduction

pH

(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT **Polishing**

(chem.-mech., **planarization**; chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT Semiconductor device fabrication

(**planarization**; chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 78-10-4P, TEOS 7440-25-7P, Tantalum, uses 7440-33-7P, Tungsten, uses 7440-50-8P, Copper, uses 12033-62-4P, Tantalum nitride TaN

RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 57-13-6D, Urea, hydrogen peroxide complex 77-92-9, Citric acid, reactions 79-21-0, Peracetic acid 87-69-4, Tartaric acid, reactions 95-14-7, 1H-Benzotriazole 108-13-4, Malonamide 110-15-6, Succinic acid, reactions 141-82-2, Malonic acid, reactions 144-62-7, Oxalic acid, reactions 288-32-4, Imidazole, reactions 302-01-2, Hydrazine, reactions 2157-56-4, 2,4-Pentanedione dioxime 7335-69-5, Hydrazine benzoate 7664-93-9, Sulfuric acid, reactions 7722-84-1, Hydrogen peroxide, reactions 7722-84-1D, Hydrogen peroxide, urea complex 7722-86-3, Peroxymonosulfuric acid 7727-54-0, Ammonium persulfate 7758-05-6, Potassium iodate 7790-21-8, Potassium periodate 7803-49-8, Hydroxylamine, reactions 10039-54-0, Hydroxylamine sulfate 10361-76-9, Potassium peroxymonosulfate 13444-71-8, Periodic acid 13465-08-2, Hydroxylamine nitrate 21111-84-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(chem. mech. **polishing** compns. slurry for  
**planarization** of semiconductor wafers by selective oxidn. and  
redn. with controlled pH)

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

E 2,4-PENTADIONE DIOXIME  
L1 0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8 11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10 0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

L12 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003

L14 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003

L15 1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003

L16 680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003

L17 4 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003

L18 0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003

L20 2 S L19 AND L12

=> s 117 and 120  
L21 1 L17 AND L20

=> d all

→ L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:616331 CAPLUS  
DN 137:178133  
TI Chemical mechanical **polishing** compositions  
IN Small, Robert J.; McGhee, Laurence; Maloney, David J.; Peterson, Maria L.  
PA USA  
SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 481,050.  
CODEN: USXXCO  
DT Patent  
LA English  
IC ICM H01L021-302  
ICS H01L021-461  
NCL 438689000  
CC 76-3 (Electric Phenomena)  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002111024	A1	20020815	US 2001-985870	20011106
	WO 9804646	A1	19980205	WO 1997-US12220	19970721
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6117783	A	20000912	US 1998-43505	19980323
	US 6313039	B1	20011106	US 2000-481050	20000111
PRAI	US 1996-23299P	P	19960726		
	WO 1997-US12220	W	19970721		
	US 1998-43505	A1	19980323		
	US 2000-481050	A2	20000111		
AB	A compn. for chem. mech. <b>polishing</b> that includes a slurry is described. A sufficient amt. of a selectively oxidizing and reducing compd. is provided to produce a differential removal of a metal and a dielec. material. A pH adjusting compd. adjusts the pH of the compn. to provide a pH that makes the selectively oxidizing and reducing compd. provide the differential removal of a metal and a dielec. material. A compn. may include an effective amt. of an hydroxylamine compd., ammonium persulfate, a compd. which is an indirect source of hydrogen peroxide, and a peracetic acid or periodic acid. A method for chem. mech. <b>polishing</b> is described which includes applying a slurry that includes the compn. to a surface to produce mech. removal of the metal and dielec. material.				
ST	chem mech <b>polishing</b> slurry semiconductor device				
	<b>planarization</b>				
IT	Diffusion barrier				
	Integrated circuits				
	Oxidation				
	Reduction				
	pH				
	(chem. mech. <b>polishing</b> compns. slurry for <b>planarization</b> of semiconductor wafers by selective oxidn. and redn. with controlled pH)				
IT	<b>Polishing</b>				
	(chem.-mech., <b>planarization</b> ; chem. mech. <b>polishing</b> )				



compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT Semiconductor device fabrication  
(**planarization**; chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 78-10-4P, TEOS 7440-25-7P, Tantalum, uses 7440-33-7P, Tungsten, uses 7440-50-8P, Copper, uses 12033-62-4P, Tantalum nitride TaN  
RL: DEV (Device component use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

IT 57-13-6D, Urea, hydrogen.peroxide complex 77-92-9, Citric acid, reactions 79-21-0, Peracetic acid 87-69-4, Tartaric acid, reactions 95-14-7, 1H-Benzotriazole 108-13-4, Malonamide 110-15-6, Succinic acid, reactions 141-82-2, Malonic acid, reactions 144-62-7, Oxalic acid, reactions 288-32-4, Imidazole, reactions 302-01-2, Hydrazine, reactions 2157-56-4, 2,4-Pentanedione dioxime 7335-69-5, Hydrazine benzoate 7664-93-9, Sulfuric acid, reactions 7722-84-1, Hydrogen peroxide, reactions 7722-84-1D, Hydrogen peroxide, urea complex 7722-86-3, Peroxymonosulfuric acid 7727-54-0, Ammonium persulfate 7758-05-6, Potassium iodate 7790-21-8, Potassium periodate 7803-49-8, Hydroxylamine, reactions 10039-54-0, Hydroxylamine sulfate 10361-76-9, Potassium peroxydisulfate 13444-71-8, Periodic acid 13465-08-2, Hydroxylamine nitrate 21111-84-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(chem. mech. **polishing** compns. slurry for **planarization** of semiconductor wafers by selective oxidn. and redn. with controlled pH)

=> file uspatfull

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
8.97	186.80

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-1.30	-11.71

CA SUBSCRIBER PRICE

FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Apr 2003 (20030401/PD)

FILE LAST UPDATED: 1 Apr 2003 (20030401/ED)

HIGHEST GRANTED PATENT NUMBER: US6543053

HIGHEST APPLICATION PUBLICATION NUMBER: US2003061649

CA INDEXING IS CURRENT THROUGH 1 Apr 2003 (20030401/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Apr 2003 (20030401/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2003

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2003

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>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
```

>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<  
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<  
>>> enter this cluster. <<<  
>>> <<<  
>>> Use USPATALL when searching terms such as patent assignees, <<<  
>>> classifications, or claims, that may potentially change from <<<  
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

                  E 2,4-PENTADIONE DIOXIME  
L1                  0 S E3  
                  E 2,4-PENTADIONE  
L2                  5 S E3  
                  E 2,4-PENTADIONE DIOXIME/CN  
L3                  0 S E3  
                  E 2,4-PENTADIONE/CN  
L4                  1 S E3  
                  E 2,4-PENTADIONE DIOXIME/CN  
L5                  0 S E3  
                  E 2,4 PENTADIONE DIOXIME/CN  
L6                  0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

                  S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003

L7                  1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003

L8                  11819 S L7  
L9                  2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003

L10                 0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11                 22804 S ?DION?/CNS AND ?OXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003

L12                 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13                 28 S L11 AND L12  
                  S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003

L14                 1 S 95-45-4/RN

FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003

L15                 1328 S L14

FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003

L16                 680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003

L17                 4 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003  
L18 . 0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003  
L20 2 S L19 AND L12  
L21 1 S L17 AND L20

FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003

=> s l12 and l16  
19653 CMP  
109856 POLISH?  
2 CHEMIPOLISH?  
290 CHEMIMECH?  
24261 PLANARIZ?  
119537 LAP?  
113796 GRIND?  
28416 ABRAD?  
777 L16  
L22 92 L12 AND L16

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003  
E 2,4-PENTADIONE DIOXIME  
L1 0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003  
S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG# C

FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003  
L7 1 S 123-54-6/RN

FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003  
L8 11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003  
L10 0 S PENTADIONE/CNS AND DIOXIME/CNS  
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FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003  
L12 179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003  
L14 1 S 95-45-4/RN

L15 FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003  
1328 S L14

L16 FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003  
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L17 FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003  
4 S L16 AND L12

L18 FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003  
0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

L20 FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003  
2 S L19 AND L12  
L21 1 S L17 AND L20

L22 FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003  
92 S L12 AND L16

=> s l12 and l19  
19653 CMP  
109856 POLISH?  
2 CHEMIPOLISH?  
290 CHEMIMECH?  
24261 PLANARIZ?  
119537 LAP?  
113796 GRIND?  
28416 ABRAD?  
20 L19  
L23 2 L12 AND L19

=> d ti 1-2

L23 ANSWER 1 OF 2 USPATFULL  
TI -----Chemical-mechanical **polishing** compositions-----

L23 ANSWER 2 OF 2 USPATFULL  
X TI Methods using oximes for processing a silver halide photographic  
light-sensitive material

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003  
E 2,4-PENTADIONE DIOXIME  
L1 0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

FILE 'CAPLUS' ENTERED AT 15:52:39 ON 02 APR 2003

S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

L7 FILE 'REGISTRY' ENTERED AT 15:53:31 ON 02 APR 2003  
1 S 123-54-6/RN

L8 FILE 'CAPLUS' ENTERED AT 15:53:31 ON 02 APR 2003  
11819 S L7  
L9 2 S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND L8

L10 FILE 'REGISTRY' ENTERED AT 16:05:22 ON 02 APR 2003  
0 S PENTADIONE/CNS AND DIOXIME/CNS  
L11 22804 S ?DION?/CNS AND ?OXIME?/CNS

L12 FILE 'CAPLUS' ENTERED AT 16:06:14 ON 02 APR 2003  
179225 S CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARIZ? OR  
L13 28 S L11 AND L12  
S 95-45-4/REG#

L14 FILE 'REGISTRY' ENTERED AT 16:09:23 ON 02 APR 2003  
1 S 95-45-4/RN

L15 FILE 'CAPLUS' ENTERED AT 16:09:23 ON 02 APR 2003  
1328 S L14

L16 FILE 'REGISTRY' ENTERED AT 16:10:07 ON 02 APR 2003  
680 S ?HYDRAZINE?/CNS AND ?BENZOIC?/CNS

L17 FILE 'CAPLUS' ENTERED AT 16:10:31 ON 02 APR 2003  
4 S L16 AND L12

L18 FILE 'REGISTRY' ENTERED AT 16:13:08 ON 02 APR 2003  
0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS  
L19 486 S ?PENTANEDIONE?/CNS AND ?DIOXIME?/CNS

L20 FILE 'CAPLUS' ENTERED AT 16:14:06 ON 02 APR 2003  
2 S L19 AND L12  
L21 -----1 S L17 AND L20

L22 FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003  
92 S L12 AND L16  
L23 2 S L12 AND L19

=> s l22 and l23  
L24 1 L22 AND L23

=> s l22 not l24  
L25 91 L22 NOT L24

=> s l25 and (cmp or polish? or chemipolish? or chemimech? or planariz? or lap? or  
grind? or abrad?)/ti  
413 CMP/TI  
4526 POLISH?/TI  
0 CHEMIPOLISH?/TI  
8 CHEMIMECH?/TI  
1274 PLANARIZ?/TI  
1711 LAP?/TI  
4483 GRIND?/TI  
464 ABRAD?/TI  
L26 0 L25 AND (CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLANARI  
Z? OR LAP? OR GRIND? OR ABRAD?)/TI

=> set high off

SET COMMAND COMPLETED

=> s l25 and (semiconduct? or wafer? or chip#)  
313799 SEMICONDUCT?  
119913 WAFER?  
254148 CHIP#

L27 15 L25 AND (SEMICONDUCT? OR WAFER? OR CHIP#)

=> set high on  
SET COMMAND COMPLETED

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

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E 2,4-PENTADIONE DIOXIME  
L1 0 S E3  
E 2,4-PENTADIONE  
L2 5 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L3 0 S E3  
E 2,4-PENTADIONE/CN  
L4 1 S E3  
E 2,4-PENTADIONE DIOXIME/CN  
L5 0 S E3  
E 2,4 PENTADIONE DIOXIME/CN  
L6 0 S E3

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S (CMP OR "CHEMICAL MECHANICAL POLISHING") AND 123-54-6/REG#

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L18 0 S ?PENTADIONE?/CNS AND ?DIOXIME?/CNS

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L20 2 S L19 AND L12

L21 1 S L17 AND L20

FILE 'USPATFULL' ENTERED AT 16:18:01 ON 02 APR 2003

L22 92 S L12 AND L16

L23 2 S L12 AND L19

L24 1 S L22 AND L23

L25 91 S L22 NOT L24

L26 0 S L25 AND (CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLAN  
SET HIGH OFF

L27 15 S L25 AND (SEMICONDUCT? OR WAFER? OR CHIP#)  
SET HIGH ON

=> s l25 and l27

L28 15 L25 AND L27

=> d kwic

L28 ANSWER 1 OF 15 USPATFULL

SUMM . . . a large amount of an organic acid in the layer produces a  
problem that the layer is softened and easily **abraded**. Such a  
problem becomes more marked and acute when the layer is further thinned.

IT 28004-70-8

(silver saving agent; silver salt photothermog. material contg.)

=> d ti 1-15

L28 ANSWER 1 OF 15 USPATFULL

TI Silver salt photothermographic material

L28 ANSWER 2 OF 15 USPATFULL

TI Silver salt photothermographic dry imaging material

L28 ANSWER 3 OF 15 USPATFULL

TI Anthelmintic pyridinyl acylhydrazones

L28 ANSWER 4 OF 15 USPATFULL

TI Anthelmintic pyridinyl acylhydrazones derivatives

L28 ANSWER 5 OF 15 USPATFULL

TI Anthelmintic quinolinyl acylhydrazones, method of use and compositions

L28 ANSWER 6 OF 15 USPATFULL

TI Printed circuit boards of laminated thermosetting sheets

L28 ANSWER 7 OF 15 USPATFULL

TI Naphtholactam dyestuffs

L28 ANSWER 8 OF 15 USPATFULL

TI Naphtholactam dyestuffs

L28 ANSWER 9 OF 15 USPATFULL

TI Oxadiazol-5-yl-coumarin derivatives

L28 ANSWER 10 OF 15 USPATFULL

TI Method of use, composition, and compounds

L28 ANSWER 11 OF 15 USPATFULL

TI Penicillins

L28 ANSWER 12 OF 15 USPATFULL  
TI Penicillins

L28 ANSWER 13 OF 15 USPATFULL  
TI Penicillins

L28 ANSWER 14 OF 15 USPATFULL  
TI Anthelmintic methods employing benzoyl chloride phenylhydrazones

L28 ANSWER 15 OF 15 USPATFULL  
TI Penicillins

=> d his

(FILE 'HOME' ENTERED AT 15:42:52 ON 02 APR 2003)

FILE 'REGISTRY' ENTERED AT 15:43:12 ON 02 APR 2003

E 2,4-PENTADIONE DIOXIME

L1 0 S E3

E 2,4-PENTADIONE

L2 5 S E3

E 2,4-PENTADIONE DIOXIME/CN

L3 0 S E3

E 2,4-PENTADIONE/CN

L4 1 S E3

E 2,4-PENTADIONE DIOXIME/CN

L5 0 S E3

E 2,4 PENTADIONE DIOXIME/CN

L6 0 S E3

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L13 28 S L11 AND L12

S 95-45-4/REG#

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L22 92 S L12 AND L16

L23 2 S L12 AND L19

L24 1 S L22 AND L23

L25 91 S L22 NOT L24

L26 0 S L25 AND (CMP OR POLISH? OR CHEMIPOLISH? OR CHEMIMECH? OR PLAN  
SET HIGH OFF

L27 15 S L25 AND (SEMICONDUCT? OR WAFER? OR CHIP#)  
SET HIGH ON

L28 15 S L25 AND L27

=> s l25 not l28

L29 76 L25 NOT L28

=> d ti 1-76

L29 ANSWER 1 OF 76 USPATFULL

TI Indazole compounds and pharmaceutical compositions for inhibiting  
protein kinases, and methods for their use

L29 ANSWER 2 OF 76 USPATFULL

TI Indazole compounds and pharmaceutical compositions for inhibiting  
protein kinases, and methods for their use

L29 ANSWER 3 OF 76 USPATFULL

TI 4-substituted-1- (arylmethylidene) thiosemicarbazide, 4-substituted-1-  
- (arylcarbonyl) -thiosemicarbazide and analogs as activators of caspases  
and inducers of apoptosis and the use thereof

L29 ANSWER 4 OF 76 USPATFULL

TI Substituted 3-aryl-5-aryl-[1,2,4]-oxadiazoles and analogs as activators  
of caspases and inducers of apoptosis and the use thereof

L29 ANSWER 5 OF 76 USPATFULL

TI Pesticidal triazine-derivatives

L29 ANSWER 6 OF 76 USPATFULL

TI Substituted N'-(arylcarbonyl)-benzhydrazides, N'-(arylcarbonyl)-  
benzylidene-hydrazides and analogs as activators of caspases and  
inducers of apoptosis and the use thereof

L29 ANSWER 7 OF 76 USPATFULL

TI Insecticides

L29 ANSWER 8 OF 76 USPATFULL

TI Silver halide color photographic photosensitive material and method for  
forming image

L29 ANSWER 9 OF 76 USPATFULL

TI Salicylic acid derivatives, processes for their preparation,  
compositions comprising them, their use

L29 ANSWER 10 OF 76 USPATFULL  
TI Cinchonan based chiral selectors for separation of stereoisomers

L29 ANSWER 11 OF 76 USPATFULL  
TI Insecticidal compositions

L29 ANSWER 12 OF 76 USPATFULL  
TI Carboxamides useful as 5-HT1F agonists

L29 ANSWER 13 OF 76 USPATFULL  
TI Insecticides

L29 ANSWER 14 OF 76 USPATFULL  
TI Insecticidal compositions and methods of use employing them

L29 ANSWER 15 OF 76 USPATFULL  
TI Cysteine protease inhibitors

L29 ANSWER 16 OF 76 USPATFULL  
TI Insecticidal compositions and methods of use employing imidacloprid and another insecticide

L29 ANSWER 17 OF 76 USPATFULL  
TI Methods for controlling invertebrate pests using cocaine receptor binding ligands

L29 ANSWER 18 OF 76 USPATFULL  
TI Dihydropyridazinones, pyridazinones and related compounds as fungicides

L29 ANSWER 19 OF 76 USPATFULL  
TI Portable motor or engine-driven cutting-off machine

L29 ANSWER 20 OF 76 USPATFULL  
TI 1,3,4-oxadiazoles

L29 ANSWER 21 OF 76 USPATFULL  
TI-- Smectic-G liquid crystal composition and a liquid crystal display element

L29 ANSWER 22 OF 76 USPATFULL  
TI Method and apparatus for avoiding desensitization of a radio frequency receiver

L29 ANSWER 23 OF 76 USPATFULL  
TI Insecticidal hydrazine derivatives

L29 ANSWER 24 OF 76 USPATFULL  
TI Acaricidally active tetrazine derivatives

L29 ANSWER 25 OF 76 USPATFULL  
TI Smectic C liquid crystal composition and a liquid crystal display element

L29 ANSWER 26 OF 76 USPATFULL  
TI Process for preparing a coating with improved resistance to yellowing and the resulting coating

L29 ANSWER 27 OF 76 USPATFULL  
TI One-component coating compositions containing oxime- or lactam-blocked polyisocyanates which have improved resistance to yellowing

L29 ANSWER 28 OF 76 USPATFULL

TI Preparation of N-aminopyridones

L29 ANSWER 29 OF 76 USPATFULL  
TI Acaricidally active tetrazine derivatives

L29 ANSWER 30 OF 76 USPATFULL  
TI Highly insoluble azole embossing inhibitor and the use thereof

L29 ANSWER 31 OF 76 USPATFULL  
TI Milbemycin derivatives, their preparation and their use

L29 ANSWER 32 OF 76 USPATFULL  
TI Hydraulic machine with wedge-shaped swashplate

L29 ANSWER 33 OF 76 USPATFULL  
TI Halopropargyl compounds, compositions, uses and processes of preparation

L29 ANSWER 34 OF 76 USPATFULL  
TI Polymeric pigment dispersants for use in coating compositions

L29 ANSWER 35 OF 76 USPATFULL  
TI 1-aryl-3-(3,4-dihydro-4-oxo-3-quinazolinyl)urea fungicidal agents

L29 ANSWER 36 OF 76 USPATFULL  
TI Aryl triazole herbicides

L29 ANSWER 37 OF 76 USPATFULL  
TI Halopropargyl compounds, compositions, uses and processes of preparation

L29 ANSWER 38 OF 76 USPATFULL  
TI Blends of polybenzimidazoles and aromatic polyamides, aromatic polyamide-hydrazides or aromatic polyamides containing heterocyclic linkages

L29 ANSWER 39 OF 76 USPATFULL  
TI 1-aryl-3-(3,4-dihydro-4-oxo-3-quinazolinyl)urea fungicidal agents

L29 ANSWER 40 OF 76 USPATFULL  
TI Insecticidal substituted and unsubstituted benzoic acid 1-alkyl, 2-alkyl and 2-cycloalkylhydrazides

L29 ANSWER 41 OF 76 USPATFULL  
TI Triazole angiotensin II antagonists incorporating a substituted benzyl element

L29 ANSWER 42 OF 76 USPATFULL  
TI Aryl triazole herbicides

L29 ANSWER 43 OF 76 USPATFULL  
TI Use of hydrazide stabilizers for 3-isothiazolones

L29 ANSWER 44 OF 76 USPATFULL  
TI Process for preparing multipurpose polymer bound stabilizers and polymer bound stabilizer produced thereby

L29 ANSWER 45 OF 76 USPATFULL  
TI Insecticidal ferrocenoyl acylhydrazines

L29 ANSWER 46 OF 76 USPATFULL  
TI Multipurpose polymer bound stabilizers

L29 ANSWER 47 OF 76 USPATFULL

TI Method for forming a direct positive color image

L29 ANSWER 48 OF 76 USPATFULL

TI Avermectin derivatives

L29 ANSWER 49 OF 76 USPATFULL

TI Multipurpose polymer bound stabilizers

L29 ANSWER 50 OF 76 USPATFULL

TI Novel insecticidal dibenzoyl-tert-butylcarbazonitrile compounds and method for the preparation thereof

L29 ANSWER 51 OF 76 USPATFULL

TI Insecticidal substituted and unsubstituted benzoic acid 1-alkyl, 2 alkyl and 2-cycloalkylhydrazides

L29 ANSWER 52 OF 76 USPATFULL

TI 1,2,4-Triazole compounds

L29 ANSWER 53 OF 76 USPATFULL

TI 3,6-dichloro-2-methoxybenzohydroxamic acid derivatives and use as herbicidal agents

L29 ANSWER 54 OF 76 USPATFULL

TI Herbicidal sulfonamides

L29 ANSWER 55 OF 76 USPATFULL

TI Heterocyclic derivatives of (4-aryloxymethyl-1,3-dioxolan-2-yl)methyl-1H-imidazoles and 1H-1,2,4-triazoles

L29 ANSWER 56 OF 76 USPATFULL

TI Naphthostyryl Ni or Cu complexes, a process for their preparation, and high molecular weight organic material pigmented with these metal complexes

L29 ANSWER 57 OF 76 USPATFULL

TI ~~N-Methylcarbamoxyloxy-benzaldehyde-imine-herbicide-extenders~~

L29 ANSWER 58 OF 76 USPATFULL

TI Heterocyclic derivatives of (4-aryloxymethyl-1,3-dioxolan-2-yl)methyl-1H-imidazoles and 1H-1,2,4-triazoles

L29 ANSWER 59 OF 76 USPATFULL

TI Benzoylhydrazones of aryl phosphates and phosphonates

L29 ANSWER 60 OF 76 USPATFULL

TI Selected 2-acyl- or 2-thioacyl-1-trichloroacetimidoylhydrazines and their use as fungicides

L29 ANSWER 61 OF 76 USPATFULL

TI 1,2,4,5-Tetrazines

L29 ANSWER 62 OF 76 USPATFULL

TI Azo dyes from an oxadiazolyl-substituted aniline

L29 ANSWER 63 OF 76 USPATFULL

TI Heterocyclic derivatives of (4-aryloxy-methyl-1,3-dioxolan-2-yl)methyl-1H-imidazoles and 1H-1,2,4-triazoles

L29 ANSWER 64 OF 76 USPATFULL

TI 2-Cyano-5-substituted 1,3,4-oxadiazoles and fungicidal compositions containing them

L29 ANSWER 65 OF 76 USPATFULL  
TI Agricultural and horticultural N-benzoyl-N'-trichloroethylidene hydrazine fungicides

L29 ANSWER 66 OF 76 USPATFULL  
TI Magnetic recording medium supported on aromatic polyamide

L29 ANSWER 67 OF 76 USPATFULL  
TI Iso-(thio)-urea derivatives

L29 ANSWER 68 OF 76 USPATFULL  
TI Aromatic polyamide-type films

L29 ANSWER 69 OF 76 USPATFULL  
TI Oxadiazole benzoic acid derivatives as herbicides

L29 ANSWER 70 OF 76 USPATFULL  
TI Salicylic acid hydrazide stabilizers for polymers

L29 ANSWER 71 OF 76 USPATFULL  
TI Color stabilized polyurethanes

L29 ANSWER 72 OF 76 USPATFULL  
TI Method of manufacturing of indolyl acetic acids

L29 ANSWER 73 OF 76 USPATFULL  
TI Oxazole and oxadiazole benzoic acid derivatives as herbicides

L29 ANSWER 74 OF 76 USPATFULL  
TI CERTAIN BENZOYL CHLORIDE PHENYLHYDRAZONES AS INSECTICIDES AND MITICIDES

L29 ANSWER 75 OF 76 USPATFULL  
TI Rapid curing resin compositions comprising a ketone-aldehyde condensation polymer modified with an acyl hydrazide

L29 ANSWER 76 OF 76 USPATFULL  
TI RAPID CURING RESIN COMPOSITIONS COMPRISING A PHENOL-ALDEHYDE CONDENSATION POLYMER MODIFIED WITH AN ACYL HYDRAZIDE